

ABSTRACT OF THE DISCLOSURE

A method, apparatus and system relate to detecting an interfering device in a wireless network such as a wireless local area network (WLAN). In wireless networks using orthogonal frequency division multiplexing (OFDM) and adaptive bit loading (ABL), adaptive modulation information should be somewhat symmetric in uplink and downlink directions. By comparing modulation adaptations in the uplink and downlink directions of a communication channel between at least two terminals, identified differences can indicate the presence of a potential interferer in the wireless network. A location of the potential interferer can be estimated if a location of one or more network terminals experiencing interference is known or can be determined. An exemplary implementation for a device of the invention may be as an Access Point (AP) in the WLAN.